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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,781	10/08/2003	Sergey A. Kostylev	2024.42	6696
7590 05/26/2005  Philip H. Schlazer Energy Conversion Devices, Inc. 2956 Waterview Drive Rochester Hills, MI 48309			EXAMINER	
			JACKSON JR, JEROME	
			ART UNIT	PAPER NUMBER
			2815	
		DATE MAILED: 05/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/681,781	KOSTYLEV ET AL.			
		Examiner	Art Unit			
		Jerome Jackson Jr.	2815 (8M)			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
· <u> </u>	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
Dispositi	ion of Claims					
<ul> <li>4)  Claim(s) 1-6,8-12,14-17,19 and 20 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 10 is/are allowed.</li> <li>6)  Claim(s) 1-6,8,9,11,12,14-17,19 and 20 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Applicat	ion Papers	•				
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on <u>04 March 2005</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Information	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:				

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-6,8,9,11,12,14-17,19,20 are rejected under 35 U.S.C. 102(e) as being anticipated by Kostylev, "K"

The applied reference has a common assignee and inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

The previous rejection still applies. The new limitation threshold switching material comprising a "chalcogen" element clearly does not structurally distinguish over K because chalcogen is precisely the material of K. Note also that applicant would have to prove that the chalcogen programmable material of K is not or could not be a threshold switching material, as such language is functional. There is no evidence that the chalcogen material of K is not a "threshold switching material". See also In re Swinehart 169 USPQ 226, In re Pearson 181 USPQ 641, and Ex parte Minks 169 USPQ 120 on labels, statements of intended use, and functional material, as we have here in "threshold switching material", all of which make it clear that applicant has the burden to show the applied art cannot function in the manner claimed.

Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record does not teach a silicon nitride dielectric layer between a chalcogenide swich and a programmable resistance material.

Applicant's arguments filed 3/4/5 have been fully considered but they are not persuasive. Arguments that the chalcogen material of K is not a "threshold switching material" is unpersuasive as shown above. First, "threshold switching" is functional language and applicant has not shown that K cannot function in this manner. Secondly, the chalcogen material of K is a "threshold switching material" because it is a "phase change material".

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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